



Docket: 7213.13

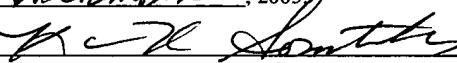
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Charles N. Serhan	
Application No.:	10/663,061	
Filing Date:	September 12, 2003	Examiner:
Title:	Aspirin-Triggered Lipid Mediators	Group Art Unit:

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this document is being sent via First Class U.S. mail addressed to:
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on this 18th
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(Signature)

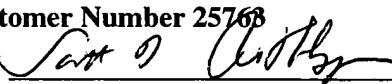
Dear Sir:

Pursuant to 37 CFR § 1.97(b), the references listed on the attached Form PTO-1449 (1 sheet, submitted in duplicate) are brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. This IDS is being filed before the mailing of a first office action on the merits. In accordance with 37 CFR § 1.97(b), no statement or fee is required.

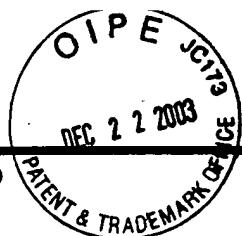
Copies of the references cited are not enclosed, as allowed under 37 CFR § 1.98(d). Each item on the enclosed Form PTO-1449 was cited to, or cited by, the Office in Ser. No. 09/785,866, filed February 16, 2001 to which priority is claimed under 35 U.S.C. § 120, in the present application.

Respectfully submitted,

DORSEY & WHITNEY LLP
Customer Number 25768

By: 
Scott D. Rothenberger
Reg. No. 41,277
Intellectual Property Department
Suite 1500, 50 South Sixth Street
Minneapolis, MN 55402-1498
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Date: October 17, 2003



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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)

Sheet	1	of	5	Attorney Docket Number	7213.13
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U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4,666,701	5/19/1987	Horrobin et al.	
		US- 5,409,955	4/25/1995	Bockow et al.	
		US- 5,411,988	5/2/1995	Bockow et al.	
		US- 5,709,855	1/20/1998	Bockow	
		US- 6,201,022	3/13/2001	Mease et al.	
		US- 4,201,211	5/6/1980	Chandrasekaran et al.	
		US- 5,814,599	9/29/1998	Mitragotri et al.	
		US- 5,846,974	12/8/1998	Kallman et al.	
		US- 4,810,424	3/7/1989	Gerwick, et al.	
		US-			

FOREIGN PATENT DOCUMENTS

*Examiner Initials	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	TRANSLATION	
		Country Code:	Number - Kind Code (if known)			YES	NO
		WO	91/16914	11/14/1991		<input type="checkbox"/>	<input type="checkbox"/>
		WO	98/46588	10/22/1998		<input type="checkbox"/>	<input type="checkbox"/>
		JP	5186342	7/27/1993	Bunshiyou et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		XP	002184773			<input type="checkbox"/>	<input type="checkbox"/>
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Sheet

2

of

5

Application Number

10/663,061

Filing Date

September 12, 2002

First Named Inventor

Charles N. S. Khan

Art Unit

Examiner Name

Attorney Docket Number

7213.13

OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

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			YES	NO
		PCT/US01/05196 International Search Report	<input type="checkbox"/>	<input type="checkbox"/>
		J.W. Karanian et al., "Physiological functions of hydroxy - docosahexaenoic acid", Abstract, XP-002200246, 1993.	<input type="checkbox"/>	<input type="checkbox"/>
		E.M. Hill, et al. "Identification and egg hatching activity of monohydroxy fatty acid eicosanoids in the barnacle <i>Balanus balanoides</i> ", Abstract, XP-002200247, 1992	<input type="checkbox"/>	<input type="checkbox"/>
		L. De Montarby, et al. "Synthesis stereoselectives de metabolites hydroxyles d'acides gras polinsatures", Bulletin De La Societe Chimique de France, No. 3, pgs. 419-432, 1989.	<input type="checkbox"/>	<input type="checkbox"/>
		M. Yamane, et al., "Docosahexaenoic/arachidonic acid ω -hydroxylation system and differentiation in the human clonic adenocarcinoma cell line, Caco-2", Cancer Letters, Vol. 122, pgs. 51-59, 1998.	<input type="checkbox"/>	<input type="checkbox"/>
		T. Kato, et al., "Production of Hydroxy Unsaturated Fatty Acids Using Crude Lipoxygenase Obtained from Infected Rice Plants", Bull. Chem. Soc. Jpn. Vol. 69, pgs. 1663-1666, 1996.	<input type="checkbox"/>	<input type="checkbox"/>
		W.E.M. Lands, "Proceedings of the AOCS Short Course on Polyunsaturated Fatty Acids and Eicosanoids", <i>American Oil Chemists' Society</i> 1987.	<input type="checkbox"/>	<input type="checkbox"/>
		M. Ligo et al., "Inhibitory effects of docosahexaenoic acid on colon carcinoma 26 metastasis to the lung", <i>Br. J. Cancer</i> , 1997, pgs. 650-655.	<input type="checkbox"/>	<input type="checkbox"/>
		G.E. Billman et al., "Prevention of sudden cardiac death by dietary pure ω -3 polyunsaturated fatty acids in dogs", <i>Circulation</i> 99 1999, pgs. 2452-2457.	<input type="checkbox"/>	<input type="checkbox"/>
		A.P. Simopoulos, "Workshop on the essentiality of recommended dietary intakes for omega-6 and omega-3 fatty acids", <i>J. Am. Coll. Nutr.</i> 1999, pgs. 487-489.	<input type="checkbox"/>	<input type="checkbox"/>
		R. Marchioloi, "Dietary supplementation with n-3 polyunsaturated fatty acids and vitamin E after myocardial infarction: results of the GISSI-Prevenzione trial", <i>Lancet</i> 1999, pgs. 447-455.	<input type="checkbox"/>	<input type="checkbox"/>

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Sh et 3 of 5 Attorney Docket Number 7213.13

OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

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			YES	NO
		G. Weissmann, "Aspirin", <i>Sci. Am.</i> 1991, pgs. 84-90.	<input type="checkbox"/>	<input type="checkbox"/>
		A.J. Marcus, "Platelets: their role in hemostasis, thrombosis, and inflammation", <i>Inflammation: Basic Principles and Clinical Correlates</i> 1999, pgs. 77-95.	<input type="checkbox"/>	<input type="checkbox"/>
		J. Claria et al., "Aspirin triggers previously undescribed bioactive eicosanoids by human endothelial cell-leukocyte interactions", <i>Proc. Natl. Acad. Sci. USA</i> 1995, pgs. 9475-9479.	<input type="checkbox"/>	<input type="checkbox"/>
		C.N. Serhan et al, "Design of lipoxin A4 stable analogs that block transmigration and adhesion of human neutrophils", <i>Biochemistry</i> 1995, pgs. 14609-14615.	<input type="checkbox"/>	<input type="checkbox"/>
		N. Chiang et al., "Leukotriene B4 receptor transgenic mice reveal novel protective roles for lipoxins and aspirin-triggered lipoxins in reperfusion", <i>J. Clin. Invest.</i> 1999, pgs. 309-316.	<input type="checkbox"/>	<input type="checkbox"/>
		H.R. Herschman, "Recent progress in the cellular and molecular biology of prostaglandin synthesis", <i>Trends Cardiovasc. Med.</i> 1998, pgs. 145-150.	<input type="checkbox"/>	<input type="checkbox"/>
		P. Needleman et al., "The discovery and function of COX-2", <i>J. Rheumatol.</i> 1997, pgs. 6-8.	<input type="checkbox"/>	<input type="checkbox"/>
		N. Chiang et al., "Aspirin-triggered 15-epi-lipoxin A4 (ATL) generation by human leukocytes and murine peritonitis exudates: Development of a specific 15-epi-LXA4 ELISA", <i>J. Pharmacol. Exp. Ther.</i> 1998, pgs. 779-790.	<input type="checkbox"/>	<input type="checkbox"/>
		G. Xiao et al., "Analysis of hydroperoxide-induced tyrosyl radicals and lipoxygenase activity in aspirin-treated human prostaglandin H synthase-2", <i>Biochemistry</i> 1997, pgs. 1836-1845.	<input type="checkbox"/>	<input type="checkbox"/>
		K. Node et al., "Anti-inflammatory properties of cytochrome P450 epoxygenase-derived eicosanoids", <i>Science</i> 1999, pgs. 1276-1279.	<input type="checkbox"/>	<input type="checkbox"/>
		S. Sethi et al., "Inhibition of phagocyte-endothelium interactions by oxidized fatty acids: A natural anti-inflammatory mechanism?", <i>J. Lab. Clin. Med.</i> 1996, pgs. 27-38.	<input type="checkbox"/>	<input type="checkbox"/>

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She t 4 of 5 Attorney Docket Number 7213.13

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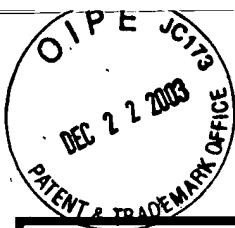
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			YES	NO
		G.N. Levy, "Prostaglandin H synthases, nonsteroidal anti-inflammatory drugs, and colon cancer", <i>FASEB J.</i> 1997, pgs. 234-247.	<input type="checkbox"/>	<input type="checkbox"/>
		K. Gronert, et al., "Transcellular regulation of eicosanoid biosynthesis", <i>Eicosanoid Protocols</i> 1999, pgs. 119-144.	<input type="checkbox"/>	<input type="checkbox"/>
		H.J. George et al., "Expression purification and characterization of recombinant human inducible prostaglandin G/H synthase from baculovirus-infected insect cells", <i>Protein Express Purif.</i> 1996, pgs. 19-26.	<input type="checkbox"/>	<input type="checkbox"/>
		J.H. Capdevila et al., "The highly stereoselective oxidation of polyunsaturated fatty acids by cytochrome P450BM-3", <i>J. Biol. Chem.</i> 1996, pgs. 22663-22671.	<input type="checkbox"/>	<input type="checkbox"/>
		R.T. Ruettinger et al., "Epoxidation of unsaturated fatty acids by a soluble cytochrome P-45-dependent system from bacillus megaterium", <i>J. Biol. Chem.</i> 1981, pgs. 5728-5734.	<input type="checkbox"/>	<input type="checkbox"/>
		T.H. Lee et al., "Characterization and biologic properties of 5,12-dihydroxy derivatives of eicosapentaenoic acid, including leukotriene B5 and the double lipoxygenase product", <i>J. Biol. Chem.</i> 1984, pgs. 2383-2389.	<input type="checkbox"/>	<input type="checkbox"/>
		C.N. Serhan et al., "Nomenclature of lipoxins and related compounds derived from arachidonic acid and eicosapentaenoic acid", <i>Prostaglandins</i> 1987, pgs. 201-204.	<input type="checkbox"/>	<input type="checkbox"/>
		D.J. Hill et al., "Trout thrombocytes contain 12-but not 5-lipoxygenase activity", <i>Biochim. Biophys. Acta</i> 1999, pgs. 63-70.	<input type="checkbox"/>	<input type="checkbox"/>
		B.N. Cronstein et al., "A mechanism for the anti-inflammatory effects of corticosteroids: The glucocorticoid receptor regulates leukocyte adhesion to endothelial cells and expression of endothelial-leukocyte adhesion molecule 1 and intercellular adhesion molecule 1", <i>Proc. Natl. Acad. Sci.</i> 1992, pgs. 9991-9995.	<input type="checkbox"/>	<input type="checkbox"/>
		T. Yokomizo et al., "A G-protein-coupled receptor for leukotriene B4 that mediates chemotaxis", <i>Nature</i> 1997, pgs. 620-624.	<input type="checkbox"/>	<input type="checkbox"/>
		M.R. Buchanan et al., "Regulation of endothelial cell and platelet receptor-ligand binding by the 12- and 15-lipoxygenase monohydroxides, 12-, 15-HETE and 13-HODE", <i>Prostaglandins Leukot. Essent. Fatty Acids</i> 1998, pgs. 339-346.	<input type="checkbox"/>	<input type="checkbox"/>

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				First Named Inventor	Charles N. Serhan	
				Art Unit		
				Examiner Name		
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		P.M. Ridker et al., "Inflammation, aspirin, and the risk of cardiovascular disease in apparently healthy men", <i>N. Engl. J. Med.</i> 1997, pgs. 973-979.				<input type="checkbox"/> <input type="checkbox"/>
		Communication Relating to the Results of the Partial International Search				<input type="checkbox"/> <input type="checkbox"/>
		Takeshi Terano, Ensho, Chemical Abstract 107:22439, pp. 63-71, 1987.				<input type="checkbox"/> <input type="checkbox"/>
		Miller et al., Lipids, Chemical Abstract 112:117062, pp. 998-1003, 1989.				<input type="checkbox"/> <input type="checkbox"/>
		Hill, EM. Proc R. Soc. London Ser. B., 247 (1318) pp 41-46, 1992.				<input type="checkbox"/> <input type="checkbox"/>
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